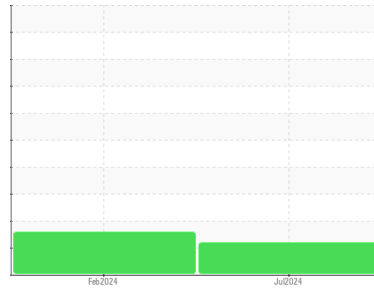


# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Area  
Machine Id  
**EAST CHICAGO OPERATIONS**  
Component  
**SENNEBOGEN 835 MH-92**  
Fluid  
**Hydraulic System**  
**HD EXPERT PROMIX 50/50 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 1,000 hrs PM oil brand )

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0113761</b>	PCA0113746	---
Sample Date	Client Info	<b>15 Jul 2024</b>	24 Feb 2024	---
Machine Age	hrs	<b>3400</b>	2000	---
Oil Age	hrs	<b>523</b>	2000	---
Oil Changed	Client Info	<b>Changed</b>	Changed	---
Sample Status		<b>ATTENTION</b>	ATTENTION	---

### CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	---

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<b>2</b>	2	---
Chromium	ppm ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm ASTM D5185m >10	<b>&lt;1</b>	0	---
Titanium	ppm ASTM D5185m	<b>0</b>	0	---
Silver	ppm ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm ASTM D5185m >10	<b>0</b>	0	---
Lead	ppm ASTM D5185m >10	<b>0</b>	<1	---
Copper	ppm ASTM D5185m >75	<b>2</b>	3	---
Tin	ppm ASTM D5185m >10	<b>0</b>	0	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>0</b>	0	---
Barium	ppm ASTM D5185m	<b>0</b>	<1	---
Molybdenum	ppm ASTM D5185m	<b>0</b>	0	---
Manganese	ppm ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm ASTM D5185m	<b>2</b>	5	---
Calcium	ppm ASTM D5185m	<b>383</b>	1039	---
Phosphorus	ppm ASTM D5185m	<b>414</b>	494	---
Zinc	ppm ASTM D5185m	<b>529</b>	657	---
Sulfur	ppm ASTM D5185m	<b>2036</b>	3230	---

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>&lt;1</b>	1	---
Sodium	ppm ASTM D5185m	<b>2</b>	0	---
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	0	---

### FLUID CLEANLINESS

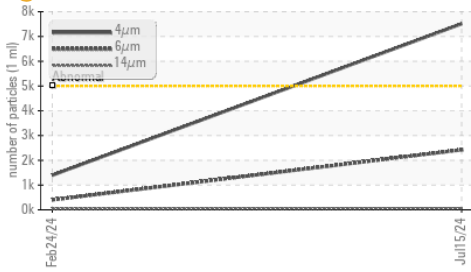
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>7514</b>	1399	---
Particles >6µm	ASTM D7647 >1300	<b>2423</b>	401	---
Particles >14µm	ASTM D7647 >160	<b>57</b>	39	---
Particles >21µm	ASTM D7647 >40	<b>4</b>	11	---
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>20/18/13</b>	18/16/12	---

### FLUID DEGRADATION

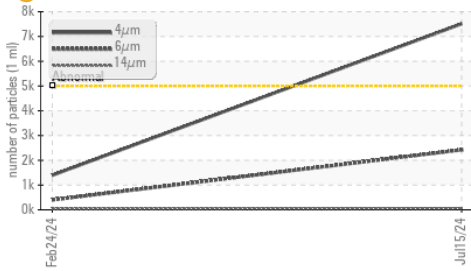
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.59</b>	1.18	---

# OIL ANALYSIS REPORT

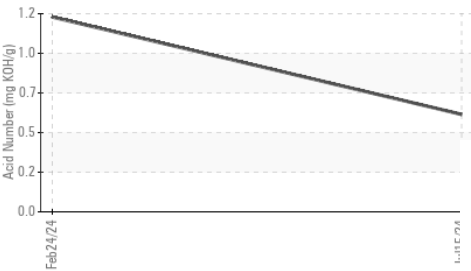
**Particle Trend**



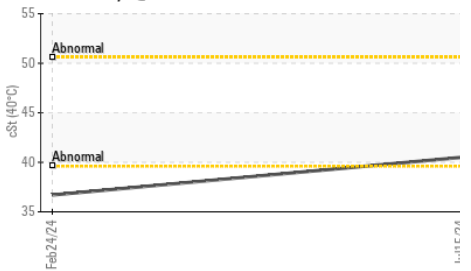
**Particle Trend**



**Acid Number**



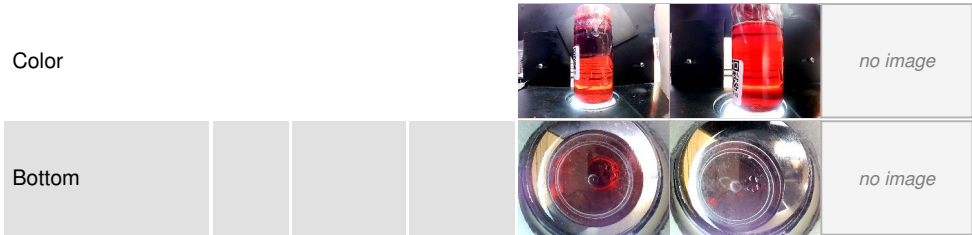
**Viscosity @ 40°C**



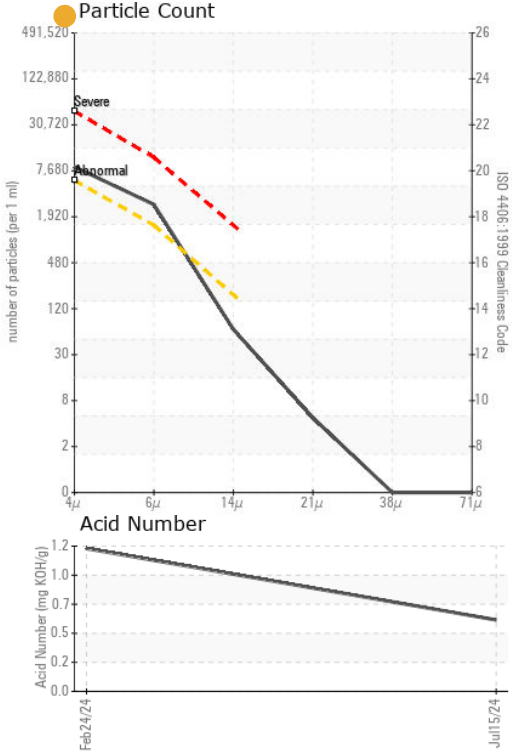
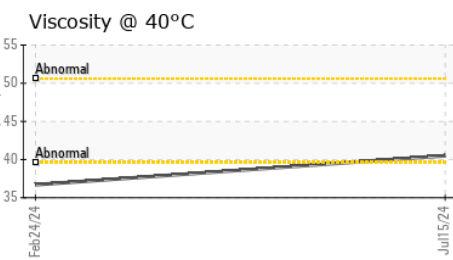
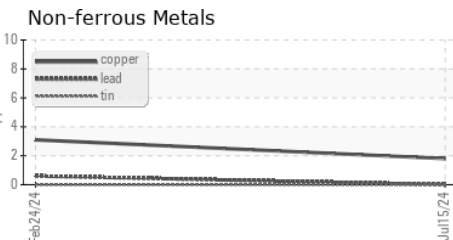
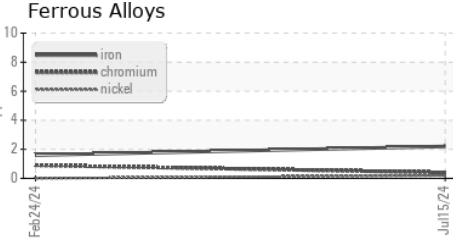
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	40.5	36.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113761      **Received** : 17 Jul 2024  
**Lab Number** : 06239112      **Tested** : 18 Jul 2024  
**Unique Number** : 11127946      **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : MOB 2

**SCRAP METAL SERVICES**  
 415 E 151ST STREET  
 EAST CHICAGO, IN  
 US 46312  
 Contact: DAN GERTLER  
 dgertler@scrapmetalservices.com  
 T: (312)771-4999  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)